

FCC 351
December 1985

United States of America
FEDERAL COMMUNICATIONS COMMISSION

File No.: BP-870810AG
Call Sign: WCTC

AUXILIARY ANTENNA

AM BROADCAST STATION CONSTRUCTION PERMIT

1. Permittee:

RARITAN VALLEY BROADCASTING CO INC.

2. Station location : New Brunswick, NJ
3. Transmitter location : New Brunswick, NJ

North Latitude : 40° 28' 33"
West Longitude : 74° 29' 34"

4. Main studio location :
(Listed only if not at transmitter site or not within
boundaries of principal community.)

5. Remote control location :
6. Transmitter : Type accepted
(See Section 73.1660, 73.1665 and 73.1670 of the
Commission's Rules.)

Average hours of sunrise and sunset:
Standard Time (Non-Advanced)

PROVIDED WITH PREVIOUS
AUTHORIZATION

7. Antenna and ground system: Vertical, self supporting, shunt excited, folded unipole, tapered, steel radiator 98.48 m (171.4°) in height (154.57 m Overall), with a FM antenna side mounted near the top. Theoretical Efficiency 370 mV/m/Kw @ 1 km. Ground system consists of 120 equally spaced, buried, copper radials 61 m in length.

8. Obstruction marking and lighting specifications: FCC Form 715, paragraphs: 1, 3, 4, 13 & 21.

9. Operating Assignment

Frequency : 1450 kHz
Power--Night : 0.25 Kw (Non-Directional)
Day : 0.25 Kw (Non-Directional) For Auxiliary purpose only.
Hours of Operation : Unlimited

10. Conditions : Attached

11. Deadline for completion of construction and filing FCC Form 302: 18 months from date of grant (shown below)

Subject to the provisions of the Communications Act of 1934, as amended, treaties, and Commission Rules, and further subject to conditions set forth in this permit,¹ authority is hereby granted to construct an AM broadcast station located and described as above.

Equipment and program tests shall be conducted only pursuant to Sections 73.1610 and 73.1620 of the Commission Rules.

This permit shall be forfeited if the station is not ready for operation within the time specified or within such further time as the Commission may allow unless completion of the station is prevented by causes not under the control of the permittee. See Section 73.3599 of the Commission's Rules.

¹ This construction permit consists of this page and page(s)

Dated:

DEC 28 1987

KN/ajs

FEDERAL
COMMUNICATIONS
COMMISSION



THE AUTHORITY GRANTED IS SUBJECT TO THE FOLLOWING CONDITIONS:

Before program tests are authorized, permittee shall submit a complete nondirectional proof of performance to establish that the efficiency is essentially 370 mV/m/Kw at one kilometer, as proposed. The proof shall include at least eight approximately equally-spaced radials with sufficient close-in points such that the inverse distance field can be clearly established. (See Section 73.186 FCC Rules).

The proposed antenna shall be excited with a symmetrical folded unipole feed, utilizing a minimum of three folds.

Permittee shall install a type accepted transmitter, or submit application (FCC Form 301) along with data prescribed in Section 73.1660(b) should non-type accepted transmitter be proposed.

Permittee shall accept such interference as may be imposed by other existing 250 watt Class IV stations in the event they are subsequently authorized to increase power to 1000 watts.